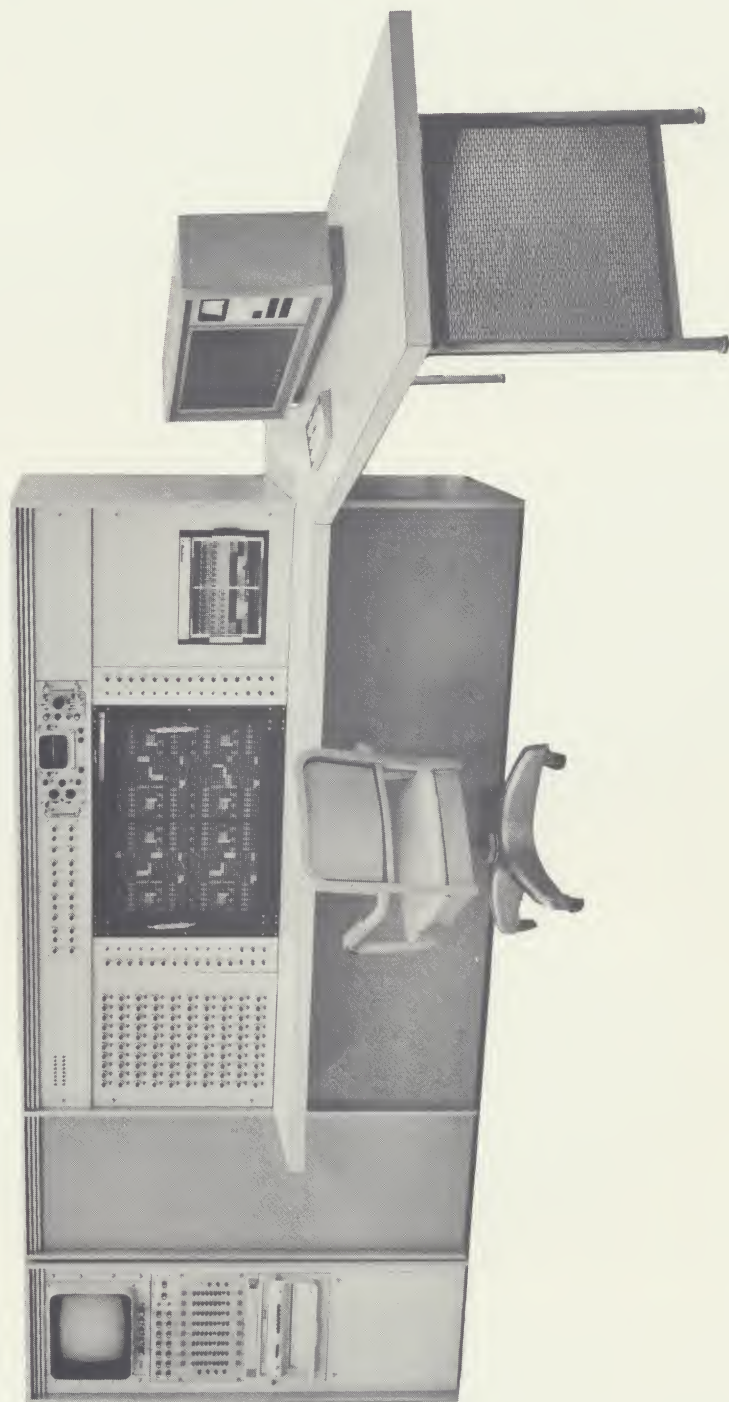




COMCOR Ci-5000 SOLID-STATE ANALOG COMPUTER

Comcor Inc.

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SOLID STATE Ci-150

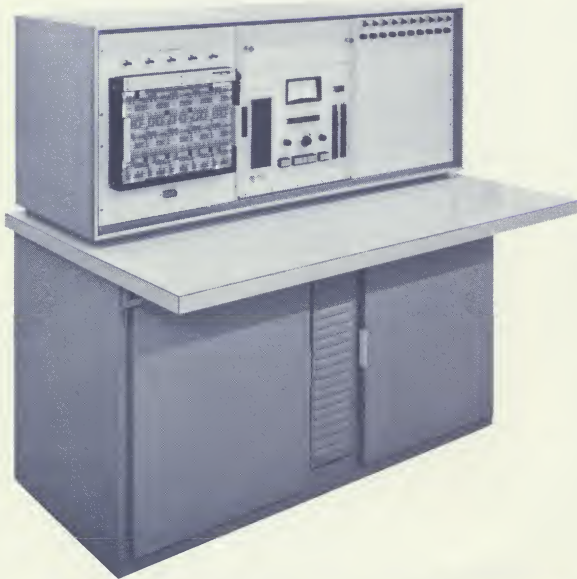
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The SOLID STATE Ci-150 is a unique ± 100 Volt analog computer offering the engineer and scientist sophisticated problem solving capabilities in a compact desk type unit.

Ci-150

100 volt field proven
analog computer

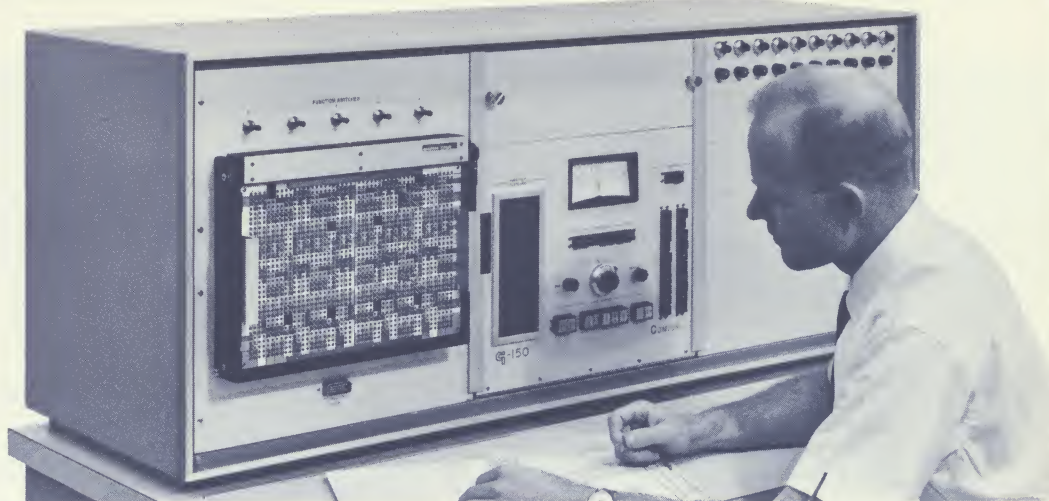


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Modular design allows computer expansion at the discretion of the operator. The computer is prewired to accept 75 amplifier expansion by simple "plug-in" of components. The completely mobile Ci-150 measures only 54 inches wide, 24 inches deep (with additional 12 inch folding shelf) and 53 inches high and can be wheeled into any area. Just plug it into a standard 115 volt AC outlet and it's ready to go. Operating simplicity and flexibility of the Ci-150 is provided by convenient location of all computing controls. Directly above the desk top writing area, are located the patchbay, the control panel and the expandable potentiometer panel. Preplanned layout of the computing elements allows the operator to efficiently reach all controls without changing his seated position.

Since a specially trained staff is not required to operate the Ci-150, the machine can be utilized at various levels depending on the operator's computer knowledge. The Ci-150 is also excellent for classroom education. By actually working with the machine, the student can readily absorb the fundamentals of programming.

Heart of the Ci-150 is the field proven Ci-308B Operational Amplifier designed specifically for high-speed analog and hybrid computers. Output current capability is 50ma at ± 100 volts DC. Mean Time Between Failure (component failure) is 157,000 hours. The Ci-308B employs SOLID STATE (FET) chopper stabilization and exhibits high gain (10^8), low noise 3mv P-P) and low drift (50 microvolts/9 hr. day).

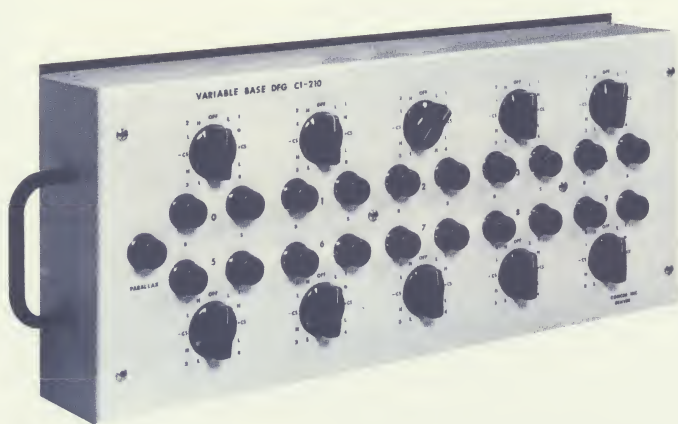


Fingertip control of the Ci-150 is provided by preplanned location of all operating controls . . . Color coded prepatch panel and function switches (left). Control panel and optional meter panel (center). Expandable potentiometer and fuse panels (right).

The COMCOR Model Ci-210 Diode Function Generator is utilized in the Ci-150 to provide a means of conveniently and accurately generating arbitrary single valued functions of an independent variable. Using standard biased diode techniques, the unit makes available twenty connected line segments with independently adjustable length and slope for fitting arbitrary functions in all four quadrants.

To solve the more complex problems, the SOLID STATE Ci-150 may be expanded to include the following quantities of computing elements.

- 75 Operational amplifiers
- 20 Integrator networks
- 30 Summer networks
- 25 Inverters
- 12 Borrow networks
- 10 Coefficient potentiometers, 3 terminal
- 50 Coefficient potentiometers, 2 terminal
- 6 Multiplier products
- 5 Sine-Cosine generators
- 2 X^2 diode function generators
- 2 Log X diode function generators
- 5 Comparators
- 5 Function switches
- 50 Trunks
- 5 Variable base diode function generators



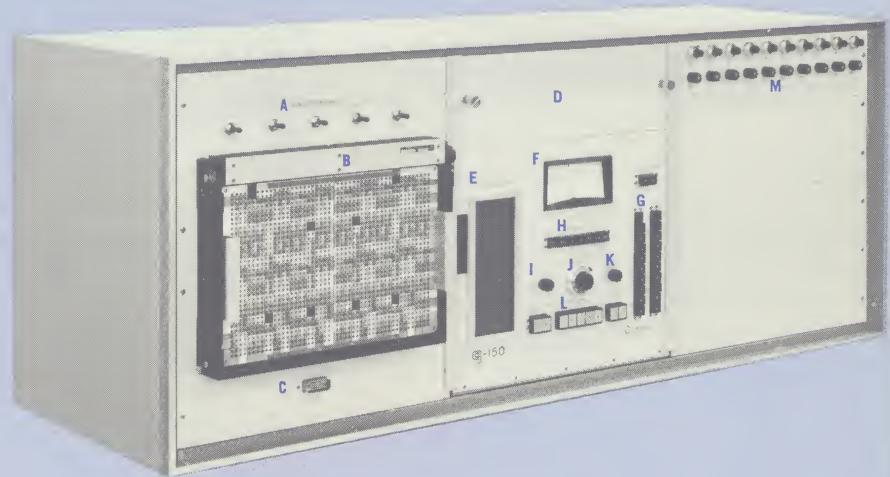
Hand set Diode Function Generator. Set up of the Ci-210 DFG is efficiently accomplished by utilizing the 'DFG SET UP' connector located directly under the patch panel.

In mechanical design, the Ci-210 has been thoroughly operator engineered to speed and simplify setup without any sacrifice in flexibility or accuracy. Slope and breakpoint adjustments are located adjacent to each other, assuring that function setup proceeds in a logical order.

Removable potentiometer panel features locking potentiometers and easily accessible fuses (for the student operator).



← Amplifier overload is clearly defined by illuminated indicator lights located on control panel.



- A FUNCTION SWITCHES
- B 1632 HOLE REMOVABLE PATCH PANEL
- C DFG SETUP CONNECTOR
- D OPTIONAL METER PANEL
- E AMPLIFIER OVERLOAD INDICATOR
- F TRANSISTORIZED VOLT METER
- G ADDRESS CONTROLS
- H METER RANGE SWITCHES
- I REFERENCE POLARITY SWITCH
- J METER NULL POTENTIOMETER
- K REP RATE
- L MODE CONTROLS
- M REMOVABLE/EXPANDABLE POTENTIOMETER PANEL

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To truly appreciate the flexibility and operational simplicity of the field proven Ci-150 . . . write for complete information today.

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